

DOCKET NO.: CRNT-0020

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Paul A. Kline

Confirmation No.: 6345

Application No.: 09/912,633

Group Art Unit: 2872

Filing Date: July 25, 2001

Examiner: Boutsikaris, Leonidas

**For: METHOD AND APPARATUS FOR PROVIDING INDUCTIVE COUPLING
AND DECOUPLING OF HIGH-FREQUENCY, HIGH-BANDWIDTH DATA
SIGNALS DIRECTLY ON AND OFF OF A HIGH VOLTAGE POWER LINE**

EXPRESS MAIL LABEL NO: EV 325638358 US

DATE OF DEPOSIT: September 22, 2003

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

RECEIVED
SEP 29 2003
TECHNOLOGY CENTER 2800

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- ☒ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or

before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

☐ In accordance with § 1.129(a), this Information Disclosure Statement is being filed in connection with ☐ the first or ☐ second After Final Submission, therefore:

☐ Certification in Accordance with § 1.97(e) is attached; or

☐ The fee of **\$180.00** as set forth in § 1.17(p) is attached.

☐ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

☐ Certification in Accordance with § 1.97(e) is attached;
or

☐ The fee of **\$180.00** as set forth in § 1.17(p) is attached.

☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of **\$180.00** as set forth in § 1.17(p).

☒ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.

☐ Copies of references listed on the attached Form PTO-1449 are enclosed herewith EXCEPT THAT:

- ☐ In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.
- ☐ In accordance with § 1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application:
- ☐ Copies of references [list as appropriate] listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior Application No. _____, filed _____.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

An English language abstract has been provided for those listed references which are not in the English language.

Date: September 22, 2003



Vincent J. Roccia
Registration No. 43,887

WOODCOCK WASHBURN LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439



Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
CRNT-0020

Serial No.
09/912,633

Applicant
Paul A. Kline

Filing Date
July 25, 2001

Group
2872

RECEIVED
SEP 29 2003
TECHNOLOGY CENTER 2800

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
	243	1,547,242	07/28/25	M. E. Strieby	-----	-----
	244	2,577,731	12/11/51	F. C. Berger	179	2.5
	245	3,369,078	2/13/68	Stradley	179	2.5
	246	3,696,383	10/03/72	Oishi et al.	340	310
	247	3,846,638	11/05/74	Wetherell	307	3
	248	3,973,087	08/03/76	Fong	179	170 R
	249	3,993,989	11/23/76	Held et al.	340	310 R
	250	4,053,876	10/11/77	Taylor	340	253 H
	251	4,263,549	04/21/81	Toppeto	324	127
	252	4,359,644	11/16/82	Foord	307	40
	253	4,367,522	01/04/83	Forstbauer et al.	363	137
	254	4,383,243	05/10/83	Krügel et al.	340	310 R
	255	4,409,542	10/11/83	Becker et al.	324	57 Q
	256	4,419,621	12/06/83	Becker et al.	324	51
	257	4,599,598	07/08/86	Komoda et al.	340	310 A
	258	4,471,399	09/11/84	Udren	361	64
	259	4,475,209	10/02/84	Udren	375	4
	260	4,479,033	10/23/84	Brown et al.	179	2.51
	261	4,517,548	05/14/85	Ise et al.	340	310 R

EXAMINER

DATE CONSIDERED

**Form PTO-1449 Modified**

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
CRNT-0020

Serial No.
09/912,633

Applicant
Paul A. Kline

Filing Date
July 25, 2001

Group
2872

RECEIVED
SEP 29 2003
TECHNOLOGY CENTER 2300

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
	262	4,701,945	10/20/87	Pedigo	379	66
	263	4,724,381	02/09/88	Crimmins	324	127
	264	4,772,870	09/20/88	Reyes	340	310 R
	265	4,904,996	02/27/90	Fernandes	340	870.07
	266	4,912,553	03/27/90	Pal et al.	358	86
	267	5,068,890	11/26/91	Nilssen	379	90
	268	5,151,838	09/29/92	Dockery	340	310 R
	269	5,477,091	12/19/95	Fiorina et al.	307	66
	270	5,818,821	10/06/98	Schurig	370	293
	271	2002/0140547 A1	10/03/02	Litwin, Jr. et al.	340	310.01
	272	2002/0171535 A1	11/21/02	Cern	340	310.07
	273	2003/0062990 A1	04/03/03	Schaeffer, Jr. et al.	340	310.01
	274	2003/0067910 A1	04/10/03	Razazian et al.	370	352
	275	S. N. 10/625,280	07/23/03	Corcoran		
	276	S.N. 10/436,778	05/13/03	Giannini et al.		
	277	S.N. 10/434,024	05/08/03	Corcoran et al.		

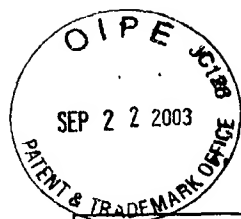
EXAMINER**DATE CONSIDERED**

Form PTO-1449 ModifiedDocket No.
CRNT-0020Serial No.
09/912,633Applicant
Paul A. KlineFiling Date
July 25, 2001Group
2872List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)U.S. Department of Commerce
Patent and Trademark Office**FOREIGN PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
	278	0 141 673 A2	05/15/85	EP	X	
	279	2 326 087	07/15/76	FR	X abstract only	
	280	1 548 652	07/18/79	GB	X	
	281	2 101 857 A	01/19/83	GB	X	
	282	84/01481 A1	04/12/84	WO	X	
	283	90/13950 A2	11/15/90	WO	X	
	284	92/16920 A1	10/01/92	WO	X	

RECEIVED
SEP 29 2003
TECHNOLOGY CENTER 2600

EXAMINER**DATE CONSIDERED**



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. CRNT-0020	Serial No. 09/912,633
	Applicant Paul A. Kline	
	Filing Date July 25, 2001	Group 2872

RECEIVED
 SEP 29 2003
 TECHNOLOGY CENTER 2000

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
285	LONWORKS Engineering Bulletin, "Demand Side Management with LONWORKS® Power Line Transceivers," December 1996 , 36 pages	
286	LONWORKS Engineering Bulletin, "Centralized Commercial Building Applications with the LONWORKS® PLT-21 Power Line Transceiver," April 1997 , 22 pages	
287	HomePlug™Powerline Alliance, HomePlug Initial Draft Medium Interface Specification, May 19, 2000 , 109 pages	
288	HomePlug™Powerline Alliance, HomePlug 0.5 Draft Medium Interface Specification, November 28, 2000 , 133 pages	
289	HomePlug™Powerline Alliance, HomePlug Initial Draft Medium Interface Specification, July 27, 2000 , 109 pages	
290	HomePlug™Powerline Alliance, HomePlug 1.01 Specification, December 1, 2001 , 139 pages	
291	Summary of an IEEE Guide for Power-Line Carrier Applications, A Report by the Power System Communications Committee, <i>IEEE Transactions on Power Apparatus and Systems</i> , Vol. PAS-99, No. 6, Nov./Dec. 1980	
292	De Wilde, W. R. et al., "Upwards to a Reliable Bi-Directional Communication Link on the LV Power Supplies for Utility Services: Field Tests in Belgium," pp. 168-172	
293	Tanaka, M., "Transmission Characteristics of a Power Line Used for Data Communications at High Frequencies," <i>IEEE Transactions on Consumer Electronics</i> , February 1989, Vol. 35, No. 1, pp. 37-42	
294	Hasler, E. F. et al., "Communication Systems Using Bundle Conductor Overhead Power Lines," <i>IEEE Transactions on Power Apparatus and Systems</i> , March/April 1975, Vol. PAS-94, No. 2, pp. 344-349	
295	IEEE Guide for Power-Line Carrier Applications, ANSI/IEEE Std 643-1980, ©1980 by The Institute of Electrical and Electronics Engineers, Inc., pp. 1-80	
296	Hatori, M. et al., "HOME INFORMATIZATION AND STANDARDIZATION OF HOME BUS," <i>IEEE Transactions on Consumer Electronics</i> , August 1986, Vol. CE-32, No. 3, pp. 542-549	
297	Hunt, J. M. et al., "Electrical Energy Monitoring and Control System for the Home," <i>IEEE Transactions on Consumer Electronics</i> , August 1986, Vol. CE-32, No. 3, pp. 578-583	
298	Gutzwiller, F. W. et al., "Homenet: A Control Network for Consumer Applications," <i>IEEE Transactions on Consumer Electronics</i> , August 1983, Vol. CE-29, No. 3, pp. 297-304	

EXAMINER	DATE CONSIDERED
----------	-----------------

**Form PTO-1449 Modified**Docket No.
CRNT-0020Serial No.
09/912,633List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)Applicant
Paul A. KlineU.S. Department of Commerce
Patent and Trademark OfficeFiling Date
July 25, 2001Group
2872**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

299	Burrascano, P. et al., "Digital Signal Transmission on Power Line Carrier Channels: An Introduction," IEEE Transactions on Power Delivery, January 1987, Vol. PWRD-2, No. 1, pp. 50-56
300	Burr, A. G. et al., "Effect of HF Broadcast Interference on PowerLine Telecommunications Above 1 Mhz," ©1998 IEEE, pp. 2870-2875
301	Onunga, J. et al., "Distribution Line Communications Using CSMA Access Control with Priority Acknowledgements," IEEE Transactions on Power Delivery, April 1989, Vol. 4, No. 2, pp. 878-886
302	Tanaka, M., "High Frequency Noise Power Spectrum, Impedance and Transmission Loss of Power Line in Japan on Intrabuilding Power Line Communications," IEEE Transactions on Consumer Electronics, May 1988, Vol. 34, No. 2, pp. 321-326
303	Meng, H. et al., "A Transmission Line Model for High-Frequency Power Line Communication Channel," ©2002 IEEE, pp. 1290-1295
304	Burrascano, P. et al., "Performance Evaluation of Digital Signal Transmission Channels on Coronating Power Lines," ©1988 IEEE, pp. 365-368
305	DiClementi, D. A. et al., "Electrical Distribution System Power Line Characterization," ©1996 IEEE, pp. 271-276
306	Abraham, K. C. et al., "A Novel High-Speed PLC Communication Modem," IEEE Transactions on Power Delivery, October 1992, Vol. 7, No. 4, pp. 1760-1768
307	Yoshitoshi, M. et al., "PROPOSED INTERFACE SPECIFICATIONS FOR HOME BUS," IEEE Transactions on Consumer Electronics, August 1986, Vol. CE-32, No. 3, pp. 550-557
308	O'Neal, Jr., J. B., "The Residential Power Circuit as a Communication Medium," IEEE Transactions on Consumer Electronics, August 1986, Vol. CE-32, No. 3, pp. 567-577
309	Written Opinion dated August 20, 2003, from PCT/US02/04310

RECEIVED
SEP 29 2003
TECHNOLOGY CENTER 2000

EXAMINER

DATE CONSIDERED

**Form PTO-1449 Modified**

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
CRNT-0020

Application No.
09/912,633

Applicant
Paul A. Kline

Filing Date
July 25, 2001

Group
2872

Confirmation No.
6345

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass

RECEIVED
SEP 29 2003
TECHNOLOGY CENTER 2800

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
	310	93/07693	04/15/93	WO		

EXAMINER**DATE CONSIDERED**